

United States Coast Guard



**ALTERNATE COMPLIANCE PROGRAM
TANKSHIP (OIL)
EXAMINATION BOOK**

Name of Vessel	
Official Number	ACP Class Society
Date Completed	Location
Vessel Built in Compliance with SOLAS: 60 74 74/78 N/A	
Exam Type	
Annual	Reexamination
Inspectors	
1. _____	3. _____
2. _____	4. _____

Total Time Spent Per Activity:

Regular Personnel (Active Duty)			
ACTIVITY TYPE	ACTIVITY	TRAINING	(PERS) MI

TOTAL ADMIN HOURS	TOTAL TRAVEL HOURS
-------------------	--------------------

Reserve Personnel			
ACTIVITY TYPE	ACTIVITY	TRAINING	(PERS) MI

TOTAL ADMIN HOURS	TOTAL TRAVEL HOURS
-------------------	--------------------

Auxiliary Resources	
TOTAL BOAT HOURS	TOTAL AIRCRAFT HOURS

Use of ACP Tankship (Oil) Examination Book:

This examination book is intended to be used as a job aid by Coast Guard marine inspectors during annual examinations and reexaminations of U.S. flagged vessels participating in the Alternate Compliance Program (ACP). This book contains an extensive list of possible examination items. It is not, however, the Coast Guard's intention to "inspect" all items listed. The marine inspector must verify that the vessel and its crew are in substantial compliance with international conventions and the requirements of the ACP class society's U.S. Supplement. The depth and scope of the examination must be determined by the marine inspector's observation of the vessel, its equipment, and its crew.

This document does not establish or change Federal laws or regulations. References given are only general guides. Refer to IMO publications, CFR's, the ACP class society's U.S. Supplement, NVIC's, or any locally produced cite guides for specific regulatory references. Although not all items in this book are applicable to all vessels, Section 1 should be filled out in its entirety at each examination and reexamination.

NOTE: *Guidance on how to examine ACP vessels can be found in MSM Volume II, Chapter 32: Alternate Compliance Program, and NVIC 2-95, Change 1. All MSM cites listed in this book refer to MSM Volume II unless otherwise indicated.*

Guide to Examinations:

- ☐ Annual examination and reexamination
- ☐ Annual examination only
- ☐ Expanded examination as required

These three stages are only a general guide. Each marine inspector should determine the depth of the examination necessary. A checked box should be a running record of what has been examined by the marine inspector. It does not imply that the entire system has been examined or that all or any items are in full compliance.

NOTE: *A reexamination normally includes an examination of the vessel's documents, certificates, and licenses, in addition to a "walk-through" of the vessel.*

Pre-inspection Items

- Review vessel computer (survey status) reports from the ACP class society.
- Review reports pertaining to conditions of class or statutory deficiencies
- Obtain copies of forms or certificates to be issued.

Post-inspection Items

- Issue forms/certificates to vessel.
- Update MSIS with international certificate data.
 - VFOD – MSDS
 - VFLD – MIDR
 - MIAR
- Initiate Report of Violation (ROV) if necessary

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Section 1: Administrative Items

IMO Applicability Dates:

Reference	Date
SOLAS 1960	26 MAY 65
SOLAS 1974	25 MAY 80
1978 Protocol to SOLAS 1974	01 MAY 81
1981 Amendments (II-1 & II-2)	01 SEP 84
1983 Amendments (III)	01 JUL 86
<i>Various additional amendments to SOLAS</i>	
MARPOL 73/78 Annex I	02 OCT 83
MARPOL 73/78 Annex II	06 APR 87
MARPOL 73/78 Annex III	01 JUL 92
MARPOL 73/78 Annex V	31 DEC 88
IBC Code	After 01 JUL 86
BCH Code	Prior to 01 JUL 86
COLREGS 1972	15 JUL 77
<i>Various additional amendments to COLREGS</i>	
Load Line 1966	21 JUL 68
STCW 1978	28 APR 84
1991 Amendments	01 DEC 92
1994 Amendments	01 JAN 96
1995 Amendments	01 FEB 97

Involved Parties & General Information:

Vessel's Representatives _____ _____
Phone Numbers

Owner—Listed on DOC or COFR
No Change

Operator
No Change

Vessel Information:

Classification Society	
ISM Issuer: Same as above? Yes No If not the same, which Recognized Organization? _____	
NOTE: The period of validity for ISM documents should correspond to the following list. If they do NOT, ISM documents should be further investigated.	
<input type="checkbox"/> 5 years = Full term (SMS and DOC)	<input type="checkbox"/> 12 months = Interim (DOC)
<input type="checkbox"/> 6 months = Interim (SMC)	<input type="checkbox"/> 5 months = Short term (SMC)
Date of Last Class Survey	
Outstanding conditions of class or non-conformities	
Last Port of Call	Next Port of Call
Cargo	Current Operations
Does vessel meet double-hull requirements? Yes No If not, vessel must meet requirements by _____ (date) in accordance with 33 CFR Part 157 Appendix G.	
Last Three Cargoes 1. _____ 2. _____ 3. _____	
Is pumproom gas-free?	Yes No N/A

Call Sign	No Change (VFID)
Gross Tons	No Change (VFMD)
Built Date (use delivery date)	No Change (VFCD)
Overall Length (in feet)	No Change (VFMD)

Vessel Description:

Crude Carrier

Product Carrier

Combination

Oil / Bulk / Ore

Other

Section 2: Certificates and Documents

International Certificates:

Name of Certificate	Issuing Agency	ID #	Port Issued/ Country	Issue Date	Exp. Date	Endors. Date
Certificate of Documentation No Change	USCG					
Classification Document No Change						
Certificate of Financial Responsibility (COFR) No Change	USCG					
Safety Construction (SLC) No Change						
Safety Equipment (SLE) No Change						
Safety Radio (SLT) No Change						

Name of Certificates	Issuing Agency	ID #	Port Issued/ Country	Issue Date	Exp. Date	Endors. Date
International Load Line (ILL) No Change						
International Oil Pollution Prevention w/Form B (IOPP) No Change						
International Tonnage (ITC) No Change						
Safety Management (SMC) No Change						
Document of Compliance (DOC) No Change						

Manning:

- | | | |
|--------------------------|--|---|
| <input type="checkbox"/> | Officers' licenses current | STCW 95 I/2
STCW 95 I/10
STCW 95 VI/1
STCW 95 VI/2 |
| <input type="checkbox"/> | Rest periods | STCW 95 VIII/1 |
| | <ul style="list-style-type: none">• Review watch schedules | |

Logs and Manuals:

- | | | |
|--------------------------|---|--|
| <input type="checkbox"/> | Lifesaving equipment maintenance record | SOLAS 74/78 III/19 |
| | <ul style="list-style-type: none">• Periodic checks as required• Visual inspection of survival craft / rescue boat and launching appliances• Operation of lifeboat / rescue boat engines• Lifesaving appliances, including lifeboat equipment examined | |
| <input type="checkbox"/> | Emergency training and drills | SOLAS 74/78 III/18 |
| | <ul style="list-style-type: none">• Onboard training in use of lifesaving equipment (all crew members)• SOLAS training manual• Logbook records• Weekly and lifeboat drills | SOLAS 74/78 III/18.5
SOLAS 74/78 III/25 |
| <input type="checkbox"/> | Bridge log | STCW 95 I/14 |
| | <ul style="list-style-type: none">• Pre-arrival tests conducted• Casualties (navigation equipment and steering gear failures reported)• Steering gear drills• Emergency steering drills | 33 CFR 164.25
33 CFR 164.53 |
| <input type="checkbox"/> | Exemptions to SOLAS certificates | SOLAS 74/78 I/4 |
| <input type="checkbox"/> | Cargo and ballast information manual | 33 CFR 157.23 |

Notes: _____

Pollution Prevention Records:

- ☐ Current pollution prevention records
- Person-in-charge 33 CFR 155.700
 - Transfer equipment tests and inspections 33 CFR 156.170
 - Declaration of Inspection 33 CFR 156.150

- ☐ Proper endorsements for cargo carried

IF vessel carries:	THEN it must have:	
NLS cargo	<ul style="list-style-type: none"> • An endorsement on TVE, AND • A list of authorized cargoes on TVE 	MARPOL Ax. II NVIC 5-87
Category D cargo	<ul style="list-style-type: none"> • An NLS certificate, OR • An endorsement on TVE 	33 CFR 157.35(c)
Category C oil-like cargo	<ul style="list-style-type: none"> • An attachment to IOPP certificate, OR • An endorsement on TVE 	33 CFR 157.33
Category D oil-like cargo	<ul style="list-style-type: none"> • An attachment to IOPP certificate, OR • An NLS certificate, OR • An endorsement on TVE 	33 CFR 157.35(d)

- ☐ Crude oil washing system
- Required documents 33 CFR 157.118
 - Waiver 33 CFR 157.120

- ☐ Dedicated clean ballast tanks
- Plans and documents 33 CFR 157.202
 - Operations manual 33 CFR 157.208
 - Required documents 33 CFR 157.216

- ☐ IOPP certificate items 33 CFR 157.15
- Number of slop tanks _____
 - Total capacity of slop tanks _____
 - Oily residue tank 33 CFR 157.17

Notes: _____

- | | |
|---|--|
| <p>◇ Oil record book (spot-check)</p> <ul style="list-style-type: none"> • Each operation signed by person-in-charge • Each complete page signed by master • Book maintained for 3 years | <p>MARPOL Ax. I/20
33 CFR 151.25</p> |
| <p>◇ Shipboard oil pollution emergency plan</p> <ul style="list-style-type: none"> • Approved by flag state / class society • Contact numbers correct • Immediate Actions List | <p>MARPOL Ax. I/26.1
33 CFR 151.26</p> |
| <p>◇ Vessel response plan</p> <ul style="list-style-type: none"> • Approved by Coast Guard • Annual review by owner / operator | <p>33 CFR 155.1030
33 CFR 155.1035
33 CFR 155.1065
33 CFR 155.1070</p> |
| <p>◇ Oil transfer procedures</p> <ul style="list-style-type: none"> • Posted / available in crew's language • List of products carried by vessel • Description of transfer system including a line diagram of piping • Number of persons required on duty • Duties by title of each person • Means of communication • Procedures to top off tanks • Procedures to report oil discharges | <p>33 CFR 155.720</p> |

Notes: _____

Section 3: General Examination Items

Navigation Safety:

- | | | |
|--------------------------|--|---|
| <input type="checkbox"/> | Charts and publications for US waters/
intended voyage | 33 CFR 164.33 |
| | <ul style="list-style-type: none">• Current and corrected charts• US Coast Pilot• Sailing directions• Coast Guard Light List• Tide tables• Tidal current tables• International Rules of the Road• Inland Rules of the Road• International Code of Signals• Plotting equipment | 33 CFR 164.35 |
| <input type="checkbox"/> | Radar(s) and ARPA | 33 CFR 164.35
33 CFR 164.37
33 CFR 164.38 |
| | <ul style="list-style-type: none">• 2 required if over 10,000 GT• Operate independently• ARPA acquires targets | |
| <input type="checkbox"/> | Compasses | 33 CFR 164.35 |
| | <ul style="list-style-type: none">• Illuminated gyrocompass with repeater at stand• Illuminated magnetic compass• Current deviation table | |
| <input type="checkbox"/> | Test electronic depth sounding device and
recorder | 33 CFR 164.35 |
| | <ul style="list-style-type: none">• Accurate readout• Test all transducers• Continuous recorder (chart) | |
| <input type="checkbox"/> | Electronic position fixing device | 33 CFR 164.41 |
| | <ul style="list-style-type: none">• Location accurate | |

Notes: _____

- | | | |
|--------------------------|---|--|
| <input type="checkbox"/> | Indicators | 33 CFR 164.35 |
| | <ul style="list-style-type: none"> • Illuminated rudder angle indicator • Centerline RPM indicator • Propeller pitch (CPP systems) • Speed and distance indicators • Lateral thrusters | 33 CFR 164.40 |
| <input type="checkbox"/> | Communications | SOLAS 74/78 IV/6.3
33 CFR 26.03 |
| | <ul style="list-style-type: none"> • VHF radio | |
| <input type="checkbox"/> | Steering gear instructions | 33 CFR 164.35 |
| | <ul style="list-style-type: none"> • Instructions • Emergency instructions • Block diagram | |
| <input type="checkbox"/> | Maneuvering facts sheet with warning statement | 33 CFR 164.35 |
| <input type="checkbox"/> | Radiotelephone (VHF-FM) | SOLAS 74/78 IV/7
33 CFR 26.03
33 CFR 26.04 |
| <input type="checkbox"/> | EPIRB (406 MHz) | SOLAS 74/78 IV/7.1.6 |
| | <ul style="list-style-type: none"> • Float-free amount • Battery date current • Hydrostatic release | |
| <input type="checkbox"/> | GMDSS | SOLAS 74/78 IV/8
SOLAS 74/78 IV/9
SOLAS 74/78 IV/10
SOLAS 74/78 IV/11 |
| | <ul style="list-style-type: none"> • Additional radio equipment for area of operation | |
| ◇ | Operationally test bridge steering | SOLAS 74/78 II/1-29 |
| | <ul style="list-style-type: none"> • Test power/control pumps independently • Test follow-up and non-follow-up controls • Rudder angle indicator accurate • Activate loss of power alarm | |
| ◇ | GMDSS lifeboat radios (VHF) | SOLAS 74/78 III/6.2 |
| | <ul style="list-style-type: none"> • 3 if over 500 GT • Operable condition | |

Notes: _____

- ◇ 9 GHz radar transponder (SART) SOLAS 74/78 III/6.2
NVIC 9-93
 - Vessels > 300 GT and < 500 require 1
 - Vessels > 500 GT require 2
 - Stowed so to be rapidly placed in survival craft, or stowed in survival craft
- ◇ NAVTEX SOLAS 74/78 IV/7.1.4
- ◇ Radio installation SOLAS 74/78 IV/6.2
 - Marked with call sign

General Health and Safety

- ☐ Accident Prevention and Occupational Health
 - Rails, guards, protective clothing and equipment, warning signs posted in crew work areas
- ☐ Crew accommodations 46 CFR 32.40
MSM Ch. 13.C
 - Habitable conditions
 - Adequate lighting and ventilation
 - Free of cargo and stores
 - Individual berths
- ☐ Hospital space 46 CFR 32.40
MSM Ch. 13.C
 - Designated for ships ≥ 500 GT with 15 or more crew on voyage of more than 3 days
 - Not used for stowage or berthing
 - Properly operating toilet
- ☐ Galley MSM Ch. 6.P.8
MSM Ch. 13.C
 - Sanitary conditions
 - Adequately equipped to prepare food
 - Mess hall provided for crew
- ☐ Muster lists and emergency instructions
 - Available for each person SOLAS 74/78 III/8
 - Posted in conspicuous places
 - Shows crew member duties SOLAS 74/78 III/53

Notes: _____

- ☐ Safe access to tanker bows SOLAS 74/78 II-1/3-3
(vessels built prior to 1 JUL 98 not required to comply until 1 JUL 2001)

Structural Integrity

NOTE: Request records of Outstanding Conditions of Class. (Form or format may vary depending on classification society.) Conditions of Class may identify structural defects, wastage, etc. Conditions may also identify ships overdue for drydocking, repair or other required service.

- ☐ Hull structure ICLL 66 Reg. 1
- Frame pulling away
 - Fractures in corners
 - Holes in main decks
 - Leaks / patching on ballast tanks
 - Bulkheads / decks warped
 - Excessive wastage
- ☐ Side shell, accessible structural members, decks, and superstructure ICLL 66 Reg. 1
- Fractures, corrosion, wastage, pitting or damage to the extent that it may impair ship's seaworthiness
 - Excessive doublers, postage stamp inserts, cement boxes or soft patches
 - Welding burn marks or other evidence of recent repair work
 - Load line marked in accordance with certificates ICLL 66 Regs. 4 - 9
 - Hailing port
 - Name
 - Railings
- ☐ Watertight/weathertight openings
- Watertight doors, gaskets, dogs ICLL 66 Reg. 12
 - Other openings (means of securing) ICLL 66 Regs. 13 - 18
 - Vents, air pipes and closing appliances ICLL 66 Regs. 19 & 20
- ☐ Mid-body ballast tank externally examined MSM Vol. II Ch. 21

Ground Tackle:

- ☐ Emergency towing arrangements SOLAS 74/78 II-1/3-4
(vessels \geq 20,000 DWT only)
- Approved by Administration

Notes: _____

◇ Anchor and windlass (spot-check)

- Foundations
- Drive units
- Guards
- Covers for moving parts
- Brake pads
- Deck fittings
- Electrical (wiring) or hydraulic piping

◇ Mooring winches / capstans

- Foundations
- Cables / hooks
- Boom
- Brake
- Electrical (wiring) or hydraulic piping
- Ladders / rails

Cargo Operations:

☐ Pumprooms

NOTE: *If pumproom is not gas-free, issue requirement to make it available at next U.S. port.*

MSM Vol. I Ch.10
Appendix A
MSM Vol. II Ch. 5.I

- Marine Chemist Certificate
 - Chemist No. _____
 - Certificate No. _____
 - Date issued _____
- Ventilation
- Electrical installation
- Fire extinguishing system
- Potential sources of ignition (gear adrift, product in bilges, rags, paint, cleaning solvents, vapors, etc.)

SOLAS 74/78 II-2/59.3

SOLAS 74/78 II-2/63

☐ External examination of inert gas system

46 CFR 32.53
MSM Vol. II Ch. 15

- Piping and components
- Scrubber
- Fans
- Valves
- Expansion joints
- Free of corrosion or leakage

Notes: _____

- ☐ Piping systems
 - Connections 33 CFR 156.130
 - Equipment tests and inspections 33 CFR 156.170
 - Date of last cargo piping hydrostatic test
- ☐ Bulk hazardous solids operations
 - Stowage conditions observed 46 CFR 148.03-11
 - Special additional requirements 46 CFR 148.04
 - Additional requirements of special permit 46 CFR 148.01-11
- ☐ Vapor control system 33 CFR 156.120(aa)
46 CFR 39.10-13(d)
- ☐ Pumping, piping, and discharge arrangement 33 CFR 157.11
- ☐ Designated observation area 33 CFR 157.13
- ☐ Cargo tank ventilation SOLAS 74/78 II-2/59.1

Lifesaving Equipment:

- ☐ Lifeboats / rescue boats
 - Required number SOLAS 74/78 III/26
 - Hull integrity and fittings SOLAS 74/78 III/19.2
 - Engine starts within 5 minutes
 - Test engine at drill

NOTE: Do NOT test free fall lifeboat engine.

<u>Stbd Lifeboat</u>	<u>Port Lifeboat</u>	<u>Lifeboats</u>
Engine equipped	Engine equipped	Wooden
Engine tested	Engine tested	Fiberglass
Lifeboat lowered	Lifeboat lowered	Steel
		Covered
Free fall lifeboat with rescue boat		

Notes: _____

<input type="checkbox"/>	Davit system	SOLAS 74/78 III/19.2 SOLAS 74/78 III/48
	<ul style="list-style-type: none"> • Structure and foundation • Roller tracks • Lubrication (evidence of use) • Falls; end for end / renew (2.5 / 5 years) • No obstructions to lowering 	
<input type="checkbox"/>	Embarkation area	SOLAS 74/78 III/11.7
	<ul style="list-style-type: none"> • No obstructions • Embarkation ladder • Launching instructions • Emergency lighting 	SOLAS 74/78 III/9
<input type="checkbox"/>	Liferafts	SOLAS 74/78 III/19
	<ul style="list-style-type: none"> • Required number • Stowage • Float-free arrangement <ul style="list-style-type: none"> – Hydrostatic release / weak link • Annual servicing (hydrostatic release and inflatable liferaft) <ul style="list-style-type: none"> – Maximum 17 months • Launching instructions posted • Bow / stern station <ul style="list-style-type: none"> – Lashed down on deck or in marked location – Lifejackets available 	SOLAS 74/78 III/26 SOLAS 74/78 III/29 SOLAS 74/78 III/19.8.1 SOLAS 74/78 III/19.9.1
<input type="checkbox"/>	Lifebuoys (spot-check)	
	<ul style="list-style-type: none"> • Condition • Bridge location <ul style="list-style-type: none"> – Quick release system – Smoke and light float • Deck location <ul style="list-style-type: none"> – 50% with waterlights • Retro-reflective tape 	SOLAS 74/78 III/19.2 SOLAS 74/78 III/7.1 SOLAS 74/78 III/30.2.7
<input type="checkbox"/>	Lifejackets—watchstanders and crew (spot-check)	
	<ul style="list-style-type: none"> • Condition • Stowage • Retro-reflective material • Lights • Whistles 	SOLAS 74/78 III/19.2 SOLAS 74/78 III/7.2.2 SOLAS 74/78 III/30.2.7 SOLAS 74/78 III/27.2 SOLAS 74/78 III/32.1.6

Notes: _____

- | | | |
|--------------------------|--|------------------------|
| <input type="checkbox"/> | Line-throwing appliances (spot-check) | SOLAS 74/78 III/17 |
| | • 4 charges | |
| <input type="checkbox"/> | Pyrotechnics (spot-check) | SOLAS 74/78 III/6.3 |
| | • 12 distress flares | |
| <input type="checkbox"/> | Immersion suits and thermal protective aids (spot-check) | SOLAS 74/78 III/27.3 |
| | • Condition | SOLAS 74/78 III/19.2 |
| | • Retro-reflective material | SOLAS 74/78 III/30.2.7 |

Fire Protection:

- | | | |
|--------------------------|---|--|
| <input type="checkbox"/> | Fire control plan | SOLAS 74/78 II-2/20 |
| | • Permanently exhibited | |
| | • Language of flag state | |
| | • Copy permanently stored in weathertight container outside deckhouse | |
| <input type="checkbox"/> | Portable fire extinguishers (spot-check) | |
| | • Good condition / available for immediate use | SOLAS 74/78 II-2/21 |
| | • Located on stations | |
| | • Serviced at periodic intervals | SOLAS 74/78 II-2/6.5 |
| <input type="checkbox"/> | International shore connection | SOLAS 74/78 II-2/19 |
| <input type="checkbox"/> | Means of escape from accommodation, machinery, and other spaces | SOLAS 74/78 II-2/45 |
| | • Two required (some exceptions) | |
| | • Dead end corridors | |
| <input type="checkbox"/> | Fire doors (spot-check) | SOLAS 74/78 II-2/46
SOLAS 74/78 II-2/47 |
| | • Machinery space and stair towers | |
| | • Not tied or blocked open | |
| | • Installed closure devices working | |
| <input type="checkbox"/> | Fire detection systems (spot-check) | |
| | • Smoke / fire alarms | SOLAS 74/78 II-2/13 |
| | • Remote pull stations | SOLAS 74/78 II-2/11.8 |
| | • Smoke / flame / heat detectors and sensors | SOLAS 74/78 II-2/53 |

Notes: _____

- ◇ Test operation of fire main system
 - Required number of fire pumps SOLAS 74/78 II-2/3
 - Location of pumps SOLAS 74/78 II-2/4
 - Pumps, hydrants, piping, hoses, and nozzles in good condition and available for immediate use SOLAS 74/78 II-2/21
- ◇ Structural fire protection (spot-check) SOLAS 74/78 II-2/42
 - Bulkheads
 - Insulation
 - Ventilation
 - Penetrations
- ◇ Fixed fire extinguishing systems: cargo, machinery, and other spaces SOLAS 74/78 II-2/21
 - Tanks, cylinders, piping, controls, alarms, and release mechanisms in good condition and available for immediate use

Type of system: (circle appropriate type)

Low Pressure CO ₂	High Pressure CO ₂	Halon	Foam
---------------------------------	----------------------------------	-------	------

Pollution Prevention: (spot-check at reexaminations)

- ☐ Pollution placard posted 33 CFR 155.450
- ☐ MARPOL V placard posted 33 CFR 151.59
MARPOL Ax. V/9
- ☐ Garbage
 - Shipboard garbage properly disposed MARPOL Ax. V/3
 - Incinerator 33 CFR 151.63
 - Evidence of use (clinkers)
 - Safety of burner assembly
 - Electrical controls
 - Garbage Management Plan MARPOL Ax. V/9

Notes: _____

- ☐ Oil and hazmat
 - Fuel oil and bulk lubricating oil discharge containment 33 CFR 155.320
 - Prohibited oil spaces 33 CFR 155.470
- ☐ Oily-water separating equipment, bilge alarm, and bilge monitor
 - Alarm, recorder MARPOL Ax. I/16
 - Standard Discharge Connection 33 CFR 155.380
 - Coast Guard approval number 162.050, or meets IMO Resolution A.393(X) 33 CFR 155.430
- ☐ Cargo monitor and control
 - Operation (automatic and manual) MARPOL Ax.I/16
 - Means to stop discharge 33 CFR 157.12
 - Indicators
 - Recording devices
- ☐ Marine sanitation device
 - Type (I, II, or III) 33 CFR 159.7
 - Nameplate 33 CFR 159.55
 - Placard 33 CFR 159.59

Machinery Spaces:

- ☐ Main and auxiliary machinery installations
 - General housekeeping SOLAS 74/78 I/11(a)
 - Fire hazards
 - Shock and electrical hazards SOLAS 74/78 II-1/45.1
 - Personnel hazards (moving parts not protected, hot surfaces, etc.) SOLAS 74/78 II-1/26
 - Leaking fuel oil piping or fittings
 - Sea chests, sea valves / spool pieces in good condition
 - Tank tops and bilges free of oil SOLAS 74/78 II-2/15
 - Watertight doors SOLAS 74/78 II-1/23
 - Hand / power operation
 - Local / remote control
 - Alarm

Notes: _____

- Steering gear machinery SOLAS 74/78 II-1/29
 - Linkages
 - Hydraulic leaks
 - Ram guides
 - Lubrication
- ◇ Operationally test main and auxiliary steering gear SOLAS 74/78 II-1/29.15 through 29.20
 - 28-second operation
 - Systems operate independently
 - Unusual vibrations / leaks
 - Ram hunting
 - Limit switches
 - Communications with bridge
 - Steering gear instructions (block diagram)
- ◇ Main ship service generators SOLAS 74/78 II-1/41

NOTE: *Two independent sources of power require.*

 - F/O piping
 - Cooling lines
 - Controls
- ◇ Emergency generator room SOLAS 74/78 II-1/43
 - Test operation of prime mover
 - Personnel safety
 - Ventilation adequate
 - Electrical switchboard
 - Grounds
- ◇ Bilge pumps SOLAS 74/78 II-1/21
 - Two required

Notes: _____

Section 4: Drills

◆ **Fire Drill:**

Initial notifications	Familiarity with duties	Space isolation
General alarms / signals	Familiarity with equipment	Smoke control
Crew response	Fire pumps started	Communications w/ bridge
Properly dressed / equipped	Two jets of water	
Language understood by crew	Fire doors and dampers	

(SOLAS 74/78 III/18.3; MSM Vol. II/22.C.7.i; NVIC 6-91)

Time on Scene: _____

Notes: _____

[illegible]



(SOLAS 74/78 III/18.3; MSM Vol. II/22.C.7.h)

Notes: _____

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Section 5: Expanded Examination Items

Manuals and Instructions:

- Check for presence of the following documents
 - Instructions for maintenance and operation of all installations / equipment for fighting and containing a fire SOLAS 74/78 II-2/20
 - Training manual for lifesaving appliances SOLAS 74/78 III/18.2
 - Instructions for onboard maintenance of lifesaving appliances SOLAS 74/78 III/51
SOLAS 74/78 III/19.3
SOLAS 74/78 III/52
 - Stability booklet, associated stability plans and information SOLAS 74/78 II-1/22
ICLL 66 Reg. 10
- Cargo gear certificate
- Grain loading manual SOLAS 74/78 VI/9.1
 - Bulk vessel (stability and grain manuals often combined)
- Human Factors STCW Code
 - Determine if the appropriate crew members are able to understand the information given in manuals, instructions, etc., relevant to the safe condition of the ship and its equipment, and that they are aware of the requirements for maintenance, periodical testing, training, drills, and recording of logbook entries.

Safety Management System (SMS):

NOTE: Requirements and guidance for inspecting vessel Safety Management Systems are detailed in SOLAS 74/78, Chapter IX and NVIC 4-98.

- Documentation (may be in the form of a Safety Management Manual)
 - Controlled documents
 - Quality policy
 - Master of vessel familiar with SMS
 - Language understood by crew
 - Documentation identifies:
 - Written procedures kept on board vessel
 - Essential or critical equipment identified (or a separate manual containing this information)
 - Procedures for reporting non-conformities
 - Company's designated person(s) (name or title, and address)

Notes: _____

○ Company's training program conducted in accordance with STCW STCW I/14

NOTE: Documented procedures established to ensure new personnel and personnel transferred to new assignments are given proper familiarization with their duties.

- Proper documentation
- Training conducted before crew is assigned shipboard duties
- Essential instructions are documented and provided before sailing

○ Crew familiar with SMS issues

- Ship's officers
 - Documented procedures
 - Preventative procedures for essential equipment
 - Reporting requirements for non-conformities and able to identify typical scenarios that may result in a documented non-conformity
- Master and chief engineer familiar with internal audit procedures (e.g., know how many audits required per year and have participated in at least one) in addition to requirement's for ship's officers

○ Documented maintenance system

- Documented in writing and computerized versions
- Readily available and in language understood by those who use them
- Procedures are followed
- Records maintained

○ Vessel-specific procedures are documented in writing and address the following areas:

NOTE: Not mandatory that they follow the exact format listed below.

- Preventative maintenance
- Navigation
- Bunkering operations
- Emergency preparedness
- Pollution prevention
- Technical procedures
- Communications

Notes: _____

- Audits
 - Internal audits conducted as specified by SMS
NOTE: Do NOT examine internal audit records.
 - External audit results reviewed
 - Status of open non-conformities relevant to deficiencies leading to detention
 - Status of implementation of corrective and preventative measure
- SMS review conducted by Master in accordance with procedures in SMS
 - Non-conformities identified
 - Report of non-conformity prepared and sent in accordance with procedures established by SMS

Navigation Safety:

- Test navigation equipment listed in Section 3 to the extent necessary to determine if equipment is operating properly.
 - Human Factors (spot-check): determine if deck officers are familiar with the following items:
 - Operation of bridge control and navigational equipment
 - Use of nautical publications and charts
 - Ship maneuvering characteristics
 - Lifesaving signals
 - Bridge procedures, instructions, manuals, etc.
 - Changing steering from automatic to manual and vice versa
 - Preparations for arrival and departure
 - Communications with engineroom
 - Use of VHF
 - Raising the alarm
 - Abandon ship drill and fire drill
- STCW Table A-II
NVIC 3-98

Notes: _____

- Lights, shapes, and sound signals 72 COLREGS
 - Navigation lights
 - Sound signals
 - Distress signals
- Radio log SOLAS 74/78 IV/17
- Radio operation SOLAS 74/78 IV/7
 - Transmit on 2182 MHz and Ch. 6, 13, 16, 70
- INMARSAT communications SOLAS 74/78 IV/7.1.5

Cargo Operations:

- Human Factors: determine if personnel are familiar with the following items: STCW Table A-II/III
 - Hazardous material regulations 49 CFR 176.57
 - Special requirements (e.g., loading, segregation, firefighting equipment, etc.) for particular cargoes
 - Dangers posed by the cargo
 - Measures to be taken for cargo emergencies

Lifesaving Equipment:

- Lifeboats/liferafts/rescue boats
 - Ensure effective operation of winches, davits, falls, sheaves, etc. (Lower at least one lifeboat to the water.) SOLAS 74/78 III/19
 - Test lifeboat and rescue boat flemming gear and/or engines
 - Verify presence/condition of lifeboat equipment SOLAS 74/78 III/41
 - Retro-reflective tape
 - Lighting SOLAS 74/78 III/11.4

Notes: _____

- Emergency communication equipment
 - 2-way VHF radiotelephone apparatus SOLAS 74/78 III/6.2
 - Radar transponders
 - Survival craft EPIRBs
 - Onboard communication and alarm system SOLAS 74/78 III/6.4
- Line-throwing appliance SOLAS 74/78 III/17.49
 - Specifications and equipment
- Pilot ladders and hoists in good condition SOLAS 74/78 V/17
- Distress signals SOLAS 74/78 III/6.3
 - 12 red rocket parachute flares

Fire Protection:

- Structural fire protection SOLAS 74/78 II-2/42, 43, 44, 46, 47, 49, & 50
 - Bulkheads and decks meet applicable fire integrity requirements
 - Openings (e.g., doors, ductwork, electrical wires, piping, etc.) constructed so that they do not destroy fire resistance of bulkheads
 - Manual and automatic fire doors examined / tested
- Fire detection, fire alarm, and automatic sprinkler systems fitted where required and operating properly SOLAS 74/78 II-2/52
- Ventilation systems SOLAS 74/78 II-2/48
 - Main inlets and outlets of all ventilation spaces can be closed from outside ventilated space
 - Power ventilation capable of being shutdown from outside ventilated space
- Fire pumps SOLAS 74/78 II-2/4
 - Fire main activated; water pressure satisfactory (energize forward-most and highest hydrants)

Notes: _____

- Paint lockers and flammable liquid lockers protected by an appropriate fire extinguishing arrangement SOLAS 74/78 II-2/18.7
- Special arrangements in machinery spaces SOLAS 74/78 II-2/11
 - Machinery space ventilating fans can be shut down from outside spaces
 - All openings capable of being closed from outside machinery spaces
 - Machinery driving forced / induced draft fans, oil fuel transfer pumps, and other fuel pumps fitted with remote shutdowns located outside space concerned
- Firemen's outfits (spot-check) SOLAS 74/78 II-2/17.3
 - Two lockers
 - Four outfits
 - Protective clothing
 - Helmet, boots, and gloves
 - Lamp
 - Axe
 - Breathing apparatus and lifeline

Pollution Prevention:

- Equipment
 - Test automatic stopping device required for discharge MARPOL Ax. I/10
 - Segregation of oil fuel and water ballast systems MARPOL Ax. I/14
 - Oily residue tank (discharge arrangements, homogenizers, incinerators, etc.) MARPOL Ax. I/17
33 CFR 155.780
 - Witness operational test of emergency shutdown

Notes: _____

○

STCW Table A-III

MARPOL Ax. I

- Oil and oily mixtures
 - Responsible officer familiar with handling of sludge and bilge water
 - Quantity of residues generated
 - Capacity of holding tanks
 - Capacity of oil water separator
 - Note any inadequacies in reception facilities used; advise master to report these to flag state
- Garbage
 - Note any inadequacies in reception facilities used; advise master to report these to flag state
 - Crew familiar with Annex V requirements

MARPOL Ax. V

Machinery Spaces:

○

SOLAS 74/78 II-1/37

- Two means, one of which must be an engine order telegraph

○

SOLAS 74/78 II-1/43
SOLAS 74/78 II-1/44

- Location
- Generator and/or batteries tested under load
- Emergency lighting

○

SOLAS 74/78 II-1/27

- F/O pumps / piping
- S/W pumps / piping
- J/W pumps / piping
- L/O pumps / piping
- Piston cooling pumps / piping
- Air compressors / receivers
- Fuel / oil purifiers
- H/O heaters / transfer pump

Notes: _____

○ Steering gear alarms SOLAS 74/78 II-1/29

- Low hydraulic oil
- Loss of power
- Loss of phase
- Overload

○ Human Factors: determine if personnel are familiar with the operation of the following items STCW Table A-III

- Emergency generator:
 - Actions necessary before engine can be started
 - Different methods by which generator may be started
- Stand-by generator engine:
 - Methods to start engine automatically or manually
 - Blackout procedures
 - Load-sharing system
- Steering gear:
 - Action needed to bring main and auxiliary into operation
 - Changing steering from automatic to manual and vice versa
- Bilge pumps:
 - Starting procedures for main and emergency bilge pump
 - Appropriate valves to operate
- Fire pumps:
 - Starting procedures for main and emergency fire pumps
 - Appropriate valves to operate

Notes: _____

Inert Gas Systems (IGS):

NOTE: Requirements and guidance on inert gas systems is detailed in 46 CFR 32.53, SOLAS 74/78 II-2/62, and MSM Volume II, Chapter 15.

☐ Type of system installed

Flue gas

Gas generator

Nitrogen bottles

☐ Sampling / testing of gas pad

Tank Number	% Oxygen	OR	% Nitrogen
		⋮	
		⋮	
		⋮	
Vessel is gas-free or not carrying cargoes required to be inerted			

☐ Proper operation of IGS components

- Blowers
 - Free from excessive bearing noise and vibration
 - Remote shutdown for IGS blower
- Scrubber room ventilation
- Primary and alternate saltwater scrubber pumps
- Deck seal
 - Water level
 - Automatic filling
 - Open drain cocks on IG main
- Remote operated / automatic control valves
 - Open or closed indicator
- Gauges
 - Calibration of inline O₂ analyzing equipment
 - Check O₂ and pressure level recordings
- Portable instruments calibrated
- IG generator
 - Combustion control system and fuel supply
 - Interlocking of soot blowers (IGS automatically shuts down when soot blowers engaged)

Notes: _____

○ Proper operation of IGS audible and visual alarms

- High O₂ content of gas in IGS main
 - Activated at 8% concentration
- Low gas pressure in IGS main downstream of all non-return devices
 - Activated at 100mm (4 inches) water
- High gas pressure in IGS main downstream of all non-return devices
 - Blowers automatically shut down
 - Gas-regulating valves close
- Low / high water level or low flow to deck seal
 - Blowers automatically shut down
- Blowers discharge high temperature
 - Alarms activated at 150°F (65.6°C) or lower
 - Blowers automatically shut down
 - Gas-regulating valves close
- Failure of IGS blowers
 - Gas-regulating valves close
- Low water pressure or flow to flue gas scrubber
 - Blowers automatically shut down
 - Gas-regulating valves close
- High water level in flue gas scrubber
 - Blowers automatically shut down
 - Gas-regulating valves close
- Failure of power supply to automatic control system for gas-regulation valve and indicating devices for IG supply
- IG generator
 - Insufficient fuel supply
 - Failure of power supply to generator or control system for generator

Notes: _____

Ventilation:

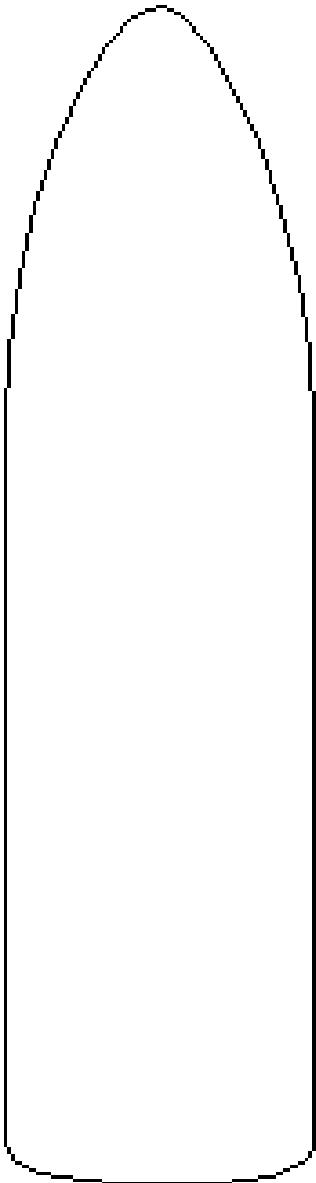
- Proper machinery for cargo carried 46 CFR 32.55-20

IF vessel carries:	THEN it must have:
Grades A-E liquid cargoes	<ul style="list-style-type: none">• P/V valves• Flame screens• Corrosion-free properties• Proper valve material• Proper vent header height above deck• Proper vent header distance from nearest living / work spaces, ventilation inlet, or source of ignition
Grades B - E liquid cargoes	<ul style="list-style-type: none">• Cargo tanks fitted with individual P/V valves or vent header
Grades D - E liquid cargoes	<ul style="list-style-type: none">• Goosenecks• Flame screens

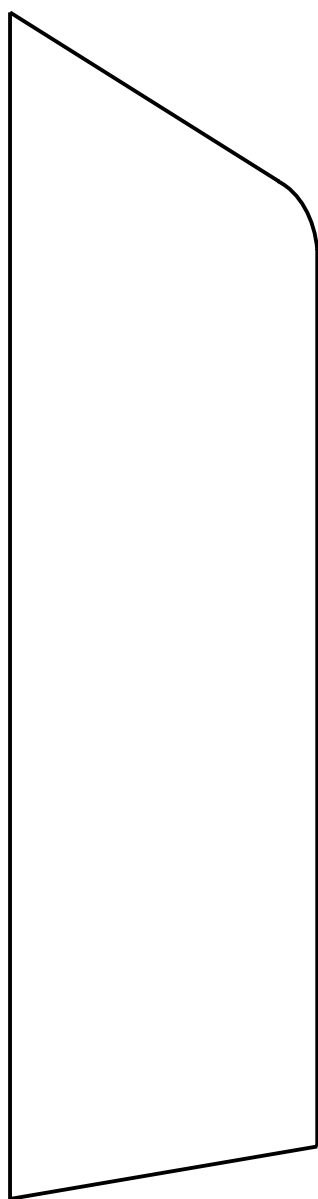
Notes: _____

Section 6: Appendices

Vessel Layout:



- Double hull / bottom / sides
- Ballast tanks (SBT/CBT)
- Tank arrangement
- Deckhouse location
- External / internal framing
- Layout of pumps – type



Cargoes Requiring a Response Plan:

Type of Cargo	Name of Cargo		
Asphalt Solution	<ul style="list-style-type: none"> • Blending stocks 	<ul style="list-style-type: none"> • Roofers stock 	<ul style="list-style-type: none"> • Straight run residue
Animal Oils	<ul style="list-style-type: none"> • Tallow • Lard • Stearic acid 	<ul style="list-style-type: none"> • Olive acid • Sperm oil 	<ul style="list-style-type: none"> • Fish oil • Fish liver
Distillates	<ul style="list-style-type: none"> • Flashed feed stocks 	<ul style="list-style-type: none"> • Straight run 	
Easenal Oils	<ul style="list-style-type: none"> • Pinene 	<ul style="list-style-type: none"> • Turpentine 	<ul style="list-style-type: none"> • Dipentine
Edible Oils	<ul style="list-style-type: none"> • Corn • Coconut 	<ul style="list-style-type: none"> • Soybean • Olive 	<ul style="list-style-type: none"> • Cotton seed
Gasolines	<ul style="list-style-type: none"> • Automotive • Aviation • Casinghead 	<ul style="list-style-type: none"> • Polymer • Straight run • Gas, oil cracked 	<ul style="list-style-type: none"> • Akylates • Reformates
Naptha	<ul style="list-style-type: none"> • Aromatic • Cracking fraction • Heavy 	<ul style="list-style-type: none"> • Paraffinic • Petroleum • Solvent 	<ul style="list-style-type: none"> • Stoddard solvent • Varnish makers
Oils	<ul style="list-style-type: none"> • Clarified oil • Crude oil • Fuel oils [# 1 (Kerosene), # 2, # 2D, # 4, # 5, # 6] • Residual fuel oil • Transformer oil • Lube oil and blending stock 	<ul style="list-style-type: none"> • Turbine oil • Aromatic oil (excluding vegetable oil) • Mineral oil • Motor oil • Penetrating oil • Spindle oil • Octene 	<ul style="list-style-type: none"> • Olefin • Animal • Range • Residual • Resin • Road • White (mineral)

Recommended ACP Vessel Deficiency Procedures:

Step	Action																
1	Identify deficiency.																
2	Inform vessel representative.																
3	Record on the <i>Deficiency Summary Worksheet</i> (next page).																
4	If deficiency is corrected prior to end of exam, go to Step 7.																
5	<p>If deficiency is unable to be corrected prior to end of exam, follow guidance in the tables below.</p> <p>TABLE 1: Minor deficiency discovered by Coast Guard marine inspector*</p> <table border="1"> <tr> <th>Step</th><th>Action</th></tr> <tr> <td>1</td><td>Notify ACP class surveyor-in-charge.</td></tr> <tr> <td>2</td><td>If ACP class surveyor issues an OSR, go to Step 7.</td></tr> <tr> <td>3</td><td>If ACP class surveyor is not available, issue CG-835 to vessel with copy sent to ACP class surveyor-in-charge. Go to Step 6.</td></tr> </table> <p>TABLE 2: Major deficiency that poses a direct and immediate threat to vessel's crew, safety of navigation, or marine environment*</p> <table border="1"> <tr> <th>Step</th><th>Action</th></tr> <tr> <td>1</td><td>Notify ACP class surveyor-in-charge of deficiency.</td></tr> <tr> <td>2</td><td>Ascertain proposed corrective action.</td></tr> <tr> <td>3</td><td>Detain vessel if so determined by OCMI under SOLAS I/19 or MARPOL Article 5.</td></tr> </table> <p>* NOTE: Deficiencies shall indicate the item must be completed to the satisfaction of either the OCMI or ACP class society. The OCMI may deny or revoke the COI for noncompliance with the terms and/or conditions of the deficiencies.</p>	Step	Action	1	Notify ACP class surveyor-in-charge.	2	If ACP class surveyor issues an OSR, go to Step 7.	3	If ACP class surveyor is not available, issue CG-835 to vessel with copy sent to ACP class surveyor-in-charge. Go to Step 6.	Step	Action	1	Notify ACP class surveyor-in-charge of deficiency.	2	Ascertain proposed corrective action.	3	Detain vessel if so determined by OCMI under SOLAS I/19 or MARPOL Article 5.
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2	Ascertain proposed corrective action.																
3	Detain vessel if so determined by OCMI under SOLAS I/19 or MARPOL Article 5.																
6	Enter CG-835 data in MIDR.																
7	Enter deficiency data in MSDS.																
8	Initiate Report of Violation (ROV) if necessary.																

Deficiency Summary Worksheet:

Name of Vessel

VIN

Deficiency	MSIS Code	Req't. Issued / Date Completed

Deficiencies identified should be listed with MSIS codes. At completion of inspection/examination, any outstanding deficiencies shall be entered in MIDR or PSDR as appropriate. All deficiencies found (outstanding and completed) shall be entered in the Deficiency Summary. Worklist items, which serve only as memory joggers to complete inspection/examination (e.g., test emergency fire pump), should not be coded as deficiencies.

MSIS Codes for Deficiencies:

BS	Ballast	DC	Dry Cargo	IC	I/C Engine
BI	Bilge	ES	Electrical	LS	Lifesaving
BA	Boiler, Aux.	FF	Firefighting	MI	Miscellaneous
BM	Boiler, Main	FL	Fuel	NS	Navigation
CS	Cargo	GS	General Safety	PP	Propulsion
DM	Deck Machinery	HA	Habitation	SS	Steering
DL	Doc., Lics., Pmts.	HU	Hull		

Conversions:

Distance and Energy				
Kilowatts (kW)	X	1.341	=	Horsepower (hp)
Feet (ft)	X	3.281	=	Meters (m)
Long Ton (LT)	X	.98421	=	Metric Ton (t)
Liquid (<i>NOTE: Values are approximate.</i>)				
Liquid	bbbl/LT	m³/t	bbbl/m³	bbbl/t
Freshwater	6.40	1.00	6.29	6.29
Saltwater	6.24	.975	6.13	5.98
Heavy Oil	6.77	1.06	6.66	7.06
DFM	6.60	1.19	7.48	8.91
Lube Oil	7.66	1.20	7.54	9.05
Weight				
1 Long Ton	= 2240 lbs	1 Metric Ton	= 2204 lbs	
1 Short Ton	= 2000 lbs	1 Cubic Foot	= 7.48 gal	
1 Barrel (oil)	= 5.61 ft³ = 42 gal = 6.29 m³	1 psi	= .06895 Bar = 2.3106 ft of water	
Temperature: Fahrenheit = Celsius (°F = 9/5 °C + 32 and °C = 5/9 (°F – 32))				
0	= -17.8	80	= 26.7	200 = 93.3
32	= 0	90	= 32.2	250 = 121.1
40	= 4.4	100	= 37.8	300 = 148.9
50	= 10.0	110	= 43.3	400 = 204.4
60	= 15.6	120	= 48.9	500 = 260
70	= 21.1	150	= 65.6	1000 = 537.8
Pressure: Bars = Pounds per square inch				
1 Bar	= 14.5 psi	5 Bars	= 72.5 psi	9 Bars = 130.5 psi
2 bars	= 29.0 psi	6 Bars	= 87.0 psi	10 Bars = 145.0 psi
3 Bars	= 43.5 psi	7 Bars	= 101.5 psi	
4 Bars	= 58.0 psi	8 Bars	= 116.0 psi	